

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Thomas Eckel et al.  
Serial No. : 10/027,870  
Filed : October 26, 2001  
For : IMPACT-MODIFIED POLYCARBONATE  
COMPOSITIONS  
Art Unit : 1712  
Examiner : D.J. Buttner

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## DECLARATION

I, Thomas Eckel, residing at Pfauenstr. 51, 41540 Dormagen, Germany, declare as follows:

- 1) that I have the following technical education and experience:
  - a) I am a chemist having studied at the Phillips-Universität of Marburg, Germany, from 1978 to 1987,
  - b) I received the degree of doctor rer. nat. at the Phillips-Universität of Marburg in the year of 1987,
  - c) I am employed by Bayer AG since July 1987 in the Research Department especially handling polymer blends;
- 2) that the following tests were carried out under my immediate supervision and control:

**Experimental results****Components:**

- A.3: Makrolon® 2600, a linear polycarbonate based on bisphenol A
- B: Styrene / acrylonitrile copolymer having a ratio by weight of styrene to acrylonitrile of 72 : 28 and an intrinsic viscosity of 0.55 dl/g (measured in dimethyl formamide at 20°C).
- C.2: Metablen® S 2001 (methyl methacrylate-butyl acrylate dimethyl siloxane copolymer) from Mitsubishi Rayon Co. Ltd.
- D.2: Glass fibre CS 7942 from Bayer AG
- D.3: Talcum Naintsch A3 from Luzenac
- D.4: Wollastonit Nyglos 8 from Nyco

Additives: Pentaerythritol tetrastearate, phosphite stabiliser

The components are mixed in a 3-litre internal mixer. The moulded bodies are produced on an Arburg 270 E injection moulding machine at 260°C.

The properties of the moulding compositions according to the invention are shown in Table 2 below:

**Table 2**

Examples	C 4	C 5	C 6	C7	C8	7	8
Components (parts by weight)							
A.3 (PC)	68	68	72	70	70	70	72
B (SAN)	-	16	16	16	16	16	16
C.2 (Si-acrylate)	17	16	12	14	14	14	12
D.2 (Glass fibre)	9	-	-	-	-	9	9
D.3 (Talcum)	-	-	-	9	-	-	-
D.4 (Wollastonit)	-	-	-	-	9	-	-
PETS	0,75	0,75	0,75	0,75	0,75	0,75	0,75
Stabiliser	0,12	0,12	0,12	0,12	0,12	0,12	0,12
E-modulus (Mpa) ISO 527	2835	2150	2224	2811	2537	2984	3060

C = Comparison

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I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.



THOMAS ECKEL

Signed at Dormagen, this 15 day of December, 2004.

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